

Client Reference: H7729US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of

TORU HIRAI, et al.

Application No.: 10/705,794

Filed: November 7, 2003



Group Art Unit: 2644

Examiner: Walter F. Briney III

Confirmation No.: 4793

For: MULTI-CHANNEL ECHO CANCEL METHOD, MULTI-CHANNEL SOUND TRANSFER METHOD, STEREO ECHO CANCELLER, STEREO SOUND TRANSFER APPARATUS AND TRANSFER FUNCTION CALCULATION APPARATUS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Examiner Briney:

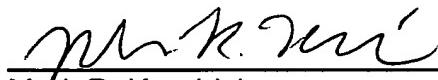
Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicants respectfully request the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicants with the next Office communication to indicate that the reference(s) has been considered, per MPEP § 609.

This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of the first Office Action on the merits in the present application. No certification or fee is required.

Client Reference: H7729US

The references were cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information. A copy of each of the references is attached.

Respectfully Submitted,

  
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Date: July 6, 2005

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**CERTIFICATION UNDER 37 C.F.R. §§ 1.8 and/or 1.10\***

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I hereby certify that, on the date shown below, this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
\_\_\_\_\_  
Signature

Date: July 6, 2005

MARK R. KENDRICK  
(*type or print name of person certifying*)

\* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(j). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

FORM PTO-1449 (modified)  
 To: U.S. Department of Commerce  
 (PW FORM PAT-1449)  
 Patent and Trademark Office



**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Date: July 6, 2005

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Atty. Dkt. No.	M#	Client Ref.
		51270-305144 H7729
Applicant:	Hirai et al.	
Appln. No.:	10/705,794	
Filing Date:	November 7, 2003	
Examiner:	Walter F. Briney III	Group Art Unit: 2644

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR						

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
					Enclosed	No
	BR				Enclosed	No

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

CR	PCT International Search Report, Mailed September 10, 2002		
DR	Benesty, et al., "A Better Understanding and an Improved Solution to the Specific Problems of Stereophonic Acoustic Echo Cancellation", IEEE Transactions on Speech and Audio Processing, Vol. 6, No. 2, (March 1998), pages 156 - 165		
ER	Benesty, et al., "A Hybrid Mono/Stereo Acoustic Echo Canceler", IEEE Transactions on Speech and Audio Processing, Vol. 6, No. 5, (September 1998), pages 468 - 475		
FR	Muratza Ali, "Stereophonic Acoustic Echo Cancellation System Using Time-Varying All-Pass Filtering for Signal Decorrelation", Proceedings of the 1998 IEEE International Conference on Acoustic, Speech, and Signal Processing, Vol. 6, (1998), pages 3689 to 3691.		
GR	Shimauchi et al., "New Configuration for a Stereo Echo Canceller with Nonlinear Pre-Processing", Proceedings on the 1998 IEEE International Conference on Acoustic, Speech, and Signal Processing, Vol. 6, (1998), pages 3685 to 3692.		
HR	Tokura et al., "Stereo shingo no Muso Kanka ni yoru 2 Channel Densukei no Suitei", The Acoustical Society of Japan (ASJ) 3, 2001 nen Shuuki Kenkyu Happyokai Koen Ronbunshu I, 02 October, 2001 (02.10.01), pages 699 to 700 (3-Q-22)		
IR	Takatoshi, et al., "Frame Sukan to Cross-spectrum Shori ni yoru Echo Yokuatsu", The Acoustical Society of Japan (ASJ) 3, Heisei 8 nendo (1996) Shunki Kenkyu Happyokai Koen Ronbunshu I, 26 March 1996 (26.03.96), pages 543 to 544 (2-6-1).		
JR	Horiuchi, et al., "2 Ten Juon Shuseibun Bunseki ni yoru Sentakuteki Shuon", 1998 nen The Institute of Electronics, Information and Communication Engineers Kiso Kyokai Society Taikai Koen Ronbunshi, 07, September, 1998 (08.09.98), page 135 (A-10-3).		

Examiner

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.